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Dotson, Stanton B.
Lutfiyya, Linda L.

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Transgenic Plants

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38-21(52743)B

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US 60/449,054

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2003-02-22

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Arabidopsis thaliana

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Gly Arg Arg Pro Arg Gly Arg Pro Ala Gly Ser Lys Asn Lys Pro Lys
35 40 45

Pro Pro Thr Ile Ile Thr Arg Asp Ser Pro Asn Val Leu Arg Ser His
50 55 60

Val Leu Glu Val Thr Ser Gly Ser Asp Ile Ser Glu Ala Val Ser Thr
65 70 75 80

Tyr Ala Thr Arg Arg Gly Cys Gly Val Cys Ile Ile Ser Gly Thr Gly
85 90 95

Ala Val Thr Asn Val Thr Ile Arg Gln Pro Ala Ala Pro Ala Gly Gly
100 105 110

Gly Val Ile Thr Leu His Gly Arg Phe Asp Ile Leu Ser Leu Thr Gly
115 120 125

Thr Ala Leu Pro Pro Pro Ala Pro Pro Gly Ala Gly Gly Leu Thr Val
130 135 140

Tyr Leu Ala Gly Gly Gln Gly Gln Val Val Gly Gly Asn Val Ala Gly
145 150 155 160

Ser Leu Ile Ala Ser Gly Pro Val Val Leu Met Ala Ala Ser Phe Ala
165 170 175

Asn	Ala	Val	Tyr	Asp	Arg	Leu	Pro	Ile	Glu	Glu	Glu	Glu	Thr	Pro	Pro
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Pro	Arg	Thr	Thr	Gly	Val	Gln	Gln	Gln	Gln	Pro	Glu	Ala	Ser	Gln	Ser
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Ser	Glu	Val	Thr	Gly	Ser	Gly	Ala	Gln	Ala	Cys	Glu	Ser	Asn	Leu	Gln
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Gly	Gly	Asn	Gly	Gly	Gly	Gly	Val	Ala	Phe	Tyr	Asn	Leu	Gly	Met	Asn
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Met	Asn	Asn	Phe	Gln	Phe	Ser	Gly	Gly	Asp	Ile	Tyr	Gly	Met	Ser	Gly
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Ser	Pro	Asn	Ala	Leu	His	Ser	His	Val	Leu	Glu	Val	Ala	Gly	Gly	Ala
				85					90					95	
Asp	Val	Val	Asp	Cys	Val	Ala	Glu	Tyr	Ala	Arg	Arg	Arg	Gly	Arg	Gly
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Val	Cys	Val	Leu	Ser	Gly	Gly	Gly	Ala	Val	Val	Asn	Val	Ala	Leu	Arg
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Arg	Phe	Glu	Ile	Leu	Ser	Leu	Thr	Gly	Thr	Val	Leu	Pro	Pro	Pro	Ala
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Pro Pro Gly Ala Ser Gly Leu Thr Val Phe Leu Ser Gly Gly Gln Gly
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 Val Val Leu Met Ala Ala Ser Phe Ala Asn Ala Val Tyr Glu Arg Leu
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 Pro Leu Glu Gly Glu Glu Glu Glu Val Ala Ala Pro Ala Ala Gly Gly
 210 215 220
 Glu Ala Gln Asp Gln Val Ala Gln Ser Ala Gly Pro Pro Gly Gln Gln
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 Gly Ala Gly Gly Met Ser Leu Tyr Asn Leu Ala Gly Asn Val Gly Gly
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 <212> PRT
 <213> Gossypium hirsutum

<400> 3

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 Pro Ile Ile Val Ala Arg Asp Ser Pro Asn Ser Leu Arg Ser His Val
 35 40 45
 Leu Glu Ile Ser Ser Gly Ser Asp Ile Val Asp Ser Val Trp Gly Tyr
 50 55 60
 Ala Arg Arg Arg Gly Arg Gly Val Cys Val Leu Ser Gly Thr Gly Ala
 65 70 75 80
 Val Thr Asn Val Thr Leu Arg Gln Pro Ala Ala Pro Pro Gly Ser Val
 85 90 95
 Val Thr Leu His Gly Arg Phe Glu Ile Leu Ser Leu Thr Gly Thr Ser
 100 105 110

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 <213> Oryza sativa

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 <213> *Gossypium hirsutum*

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Ser Thr Tyr Ala Arg Arg Arg Gly Arg Gly Val Ser Val Leu Gly Gly
          35           40           45

Asn Gly Thr Val Ser Asn Val Thr Leu Arg Gln Val Val Thr Leu His
          50           55           60

Gly Arg Phe Glu Ile Leu Ser Leu Thr Gly Thr Val Leu Pro Pro Pro
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Gly Gln Val

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<213> Arabidopsis thaliana

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Ser Thr Tyr Ala Thr Arg Arg Gly Cys Gly Val Cys Ile Ile Ser Gly
35 40 45

Thr Gly Ala Val Thr Asn Val Thr Ile Arg Gln Val Ile Thr Leu His
50 55 60

Gly Arg Phe Asp Ile Leu Ser Leu Thr Gly Thr Ala Leu Pro Pro Pro
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Gly Gln Val

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<213> Gossypium hirsutum

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20 25 30

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35 40 45

Thr Gly Ala Val Thr Asn Val Thr Leu Arg Gln Pro Ala Ala Pro Pro
50 55 60

Gly Ser Val Val Thr Leu His Gly Arg Phe Glu Ile Leu Ser Leu Thr
65 70 75 80

Gly Thr Ser Leu Pro Pro Pro Ala Pro Pro Gly Ala Gly Gly Leu Thr
85 90 95

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<210> 10
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<212> PRT
<213> Oryza sativa

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20 25 30

Ala Glu Tyr Ala Arg Arg Arg Gly Arg Gly Val Cys Val Leu Ser Gly
35 40 45

Gly Gly Ala Val Val Asn Val Ala Leu Arg Gln Pro Gly Ala Ser Pro
50 55 60

Pro Gly Ser Met Val Ala Thr Leu Arg Gly Arg Phe Glu Ile Leu Ser
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			20					25						30	
Xaa	Xaa	Tyr	Ala	Xaa	Arg	Arg	Gly	Xaa	Gly	Val	Xaa	Xaa	Xaa	Xaa	Gly
		35					40						45		
Xaa	Gly	Xaa	Val	Xaa	Asn	Val	Xaa	Xaa	Arg	Gln	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				
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Leu	Thr	Gly	Thr	Xaa	Leu	Pro	Pro	Pro	Ala	Pro	Pro	Gly	Ala	Xaa	Gly
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